


```

#cross-references MUID:91200627
#accession A53225
#status Preliminary; not compared with conceptual translation
#molecule_type DNA
#residues 1-807 ##label JON
##cross-references GB:X59492
GENETICS
#gene FlyBase:Dpae/E1p74EF
#cross-references FlyBase:Fbgn0012696
CLASSIFICATION #superfamily ets DNA-binding domain homology
FEATURE
713-793
SUMMARY #domain ets DNA-binding domain homology #label ETS
#length 807 #molecular_weight 85047 #checksum 8801

Query Match 14.0% Score 380; DB 2; Length 807;
Best Local Similarity 33.1%; Pred. No. 2,30e-50;
Matches 58; Conservative 51; Mismatches 59; Indels 7; Gaps 7;

Db 623 STIAAAAAAAAAVSSSSSVAAAAAMISASAAAAAGQSVTPATSSVYDLS-YLTEL 661
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 182 STYGCAGSPSSSDVSTRKRTATPQSS-HASDSGSDVDLDLTESKVPRPD-DFTDYKKG 239
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Db 682 GGFQGRKKKKPKRK-PK-L-E-MGVKRRSREGSTYYLMEFLKLKLDREYCPRIKTKWNR 737
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 240 PKHGKRRKRRKRRLKSKETWCDLEGGKSKHARGRHLMFEFIDILIHPELWEGLMKWR 299
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Db 738 KGVFLVDKSAVSRILMGHKNKPRDMNRYETMGALRYYYQRCILAKVGORLYVQF 792
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 300 EGVFEFLRSEAVAAQLMGOKKKNSMWTYELSLRAVRYYKKREILRVQGRRLYYVF 354

RESULT 3
ENTRY A34692 #type complete
ENTRY ecdysonc-induced protein E74A - fruit fly (Drosophila
TITLE melanogaster)
ALTERNATE_NAMES ets-related protein E74A
ORGANISM #formal_name Drosophila melanogaster
DATE 07-Sep-1990 #sequence_revision 07-Sep-1990 #text_change
24-Sep-1998

ACCESSIONS A34692
REFERENCE A90912
#authors Burris, K.C.; Thummel, C.S.; Jones, C.W.; Karim, F.D.;
#journal Hogness, D.S.
#title Cell (1990) 61:85-99
#description The Drosophila 74EF early puff contains E74, a complex
#description-1 ecdysone-inducible gene that encodes two ets-related
#description-2 proteins.
#cross-references MUID:90199900
#accession A34692
#molecule_type mRNA
#residues 1-829 ##label BUR
#cross-references GB:M37082; NID:g157307; PID:g157308
GENETICS
#gene E74
#cross-references FlyBase:Fbgn0000567
CLASSIFICATION #superfamily ets DNA-binding domain homology
KEYWORDS #alternative splicing; DNA binding; nucleus; transcription
regulation
FEATURE
735-815
SUMMARY #domain ets DNA-binding domain homology #label ETS
#length 829 #molecular_weight 87138 #checksum 9695

Query Match 13.8% Score 373; DB 2; Length 829;
Best Local Similarity 34.9%; Pred. No. 5,73e-49;
Matches 59; Conservative 46; Mismatches 57; Indels 7; Gaps 7;

Db 653 SSSSSAVAAAMLSAAAAATAAAAAGSOSVTPATSSV-S-YDLS-YLTELGGFQR 709
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 186 PGASPGSSDVSRTARTAPQSSHASDSGSDVDLDLTESKVPRPDPTDYKKSGPKGR 245
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Db 710 KAKPKRK-PK-L-E-MGVKRRSREGSTYYLMEFLKLKLDREYCPRIKTKWNEGYFKL 765
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 246 KRGPRKRLSKYTWCDLEGGKSKHARGRHLMFEFIDILIHPELWEGLMKWRHREGYFKF 305
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

```

DB	ENTRY	RESULT	4	5
766	VDSKAVSLMGHKKRPMNNETMGARLYRYXGGLAKVDGGLTYQF	B34692	#type complete	
306	LRSEAVAOIWMGOKKNSMWTYKLSRAARYKKREILERVDGRRLVYKF	ecdysone-induced protein E74B - fruit fly (Drosophila melanogaster)		
		ets-related protein E74B		
		#formal_name Drosophila melanogaster		
		07-Sep-1990 #sequence_revision 07-Sep-1990 #text_change 24-Sep-1998		
		B34692		
		A90912		
		Burris, K.C.; Thummel, C.S.; Jones, C.W.; Karim, F.D.; Hogness, D.S.		
		Cell (1990) 61:85-99		
		The Drosophila 74EF early puff contains E74, a complex ecdysone-inducible gene that encodes two ets-related proteins.		
		#cross-references MUID:90199900		
		#accession B34692		
		#molecule_type DNA		
		##residues 1-883		
		##cross-references GB:M37083; NID:g157309; PID:g157310		
		GENETICS		
		#gene E74		
		##cross-references FlyBase:FBgn0000567		
		##classification ets DNA-binding domain homology alternative splicing; DNA binding; nucleus; transcription regulation		
		FEATURE		
		789-869		
		SUMMARY		
		#domain ets DNA-binding domain homology #label ETS		
		#length 883 #molecular_weight 94810 #checksum 2082		
		Query Match 13.8%; Score 373; DB 2; Length 883;		
		Best Local Similarity 34.9%; Pred. No. 5,73e-49;		
		Matches 59; Conservative 46; Mismatches 57; Indels 7; Gaps		
		707 SSSSSAVAAAAMLSAAATAAAGSGSVIOPATSSV-S-YDLS-YMLELGFQOR		
		186 PGAPSPGSSDVSTARTARPOGSHASDSGSDVDLNEKVFPPDDPTDYKKGEPRKHKR		
		764 KAKKRR-PK-L-E-MGYKRRSREGSTITTYLMEFLKLLODREYPPRIKTNREKGYFKL		
		246 KRGPRKRSIKKEYWPCLECKKSKHAPRGTHLMEFLRIDLILHPELNEGLMKWENRHEGVKF		
		820 VDSKAVSLMGHKKRPMNNETMGARLYRYXGGLAKVDGGLTYQF		
		306 LRSEAVAOIWMGOKKNSMWTYKLSRAARYKKREILERVDGRRLVYKF		
		ENTRY		
		TITLE		
		ORGANISM		
		DATE		
		ACCESSIONS		
		REFERENCE		
		##authors		
		#journal		
		#title		
		#cross-references MUID:89315191		
		#accession S04722		
		#molecule_type DNA		
		##residues 1-883		
		##cross-references EMBL:X15087; NID:g7513; PID:g7514		
		#note Gln-867 was also found		

```

GENETICS
#gene
#cross-references FlyBase:FBgn0000567
#map_position 3 74EF
CLASSIFICATION
#superfamily ets DNA-binding domain homology
KEYWORDS
#alternative splicing; DNA binding; transcription regulation
FEATURE
789-869
#domain ets DNA-binding domain homology #label ETS
SUMMARY
#length 883 #molecular_weight 94819 #checksum 1974

Query Match 13.7%; Score 372; DB 2; Length 883;
Best Local Similarity 34.9%; Pred. No. 9,06e-49;
Matches 59; Conservative 46; Mismatches 57; Indels 7; Gaps 7;

Db 707 SSSSAVAAAAMLSAATAAAAGSGSVTPRTSSV-S-YDLS-YMLELGEFQGR 763
Oy 186 FGAPSPGSDVSTAKATAPDSSHASDGSVDLDLTESKVFPPDDFTDYKKEPYNHGR 245
Db 764 KAKRPRK-PK-L-E-MGVKRRSRSGSTTYLWFEFLKLQDREXCPRFKWTNREKGVFL 819
Oy 246 KRGRRRLKSKTYWPCLEGGKKNAHPROTHLMEFIRDLIHPELNEGMLKWNHGEVFN 305
Db 820 VDSKAVSGLWGMHKKKPDPMATETGRRLRYRQGIILAKVDGRLVYHF 868
Oy 306 LRSEAVVQLMGCKKKNSMTYEKLSRAMRYRYKREILERVDRGLRYKF 354

RESULT 6
ENTRY B53225 #type complete
TITLE ecdysoone-induced protein E74A - fruit fly (Drosophila virilis)
ORGANISM #formal_name Drosophila virilis
DATE 12-May-1994 #sequence_revision 12-May-1994 #text_change 21-Feb-1997

ACCESSIONS B53225
REFERENCE A53225
#authors Jones, C.W.; Dalton, M.W.; Townley, L.H.
#journal Genetics (1991) 127:535-543
#title Interspecific comparisons of the structure and regulation of the Drosophila ecdysoone-inducible gene E74.
#cross-references M01D:91200627
#accession B53225
#status Preliminary; not compared with conceptual translation
#molecule_type mRNA
#residues 1-873 #label JON
#cross-references GB:X59493

GENETICS
#gene FLYBase:DY1r/E1p74EF
CLASSIFICATION
#cross-references FlyBase:FBgn0013076
FEATURE
#superfamily ets DNA-binding domain homology
779-859
SUMMARY
#domain ets DNA-binding domain homology #label ETS
#length 873 #molecular_weight 94630 #checksum 6269

Query Match 13.6%; Score 369; DB 2; Length 873;
Best Local Similarity 47.3%; Pred. No. 3,58e-48;
Matches 43; Conservative 20; Mismatches 28; Indels 0; Gaps 0;

Db 768 KRASREGSTYLMWFEFLKLQDREXCPRFKWTNREKGVFLYDSKAVSHLGMHKNRPD 827
Oy 264 KKSNAHPRGTHLMEFIRDLIHPELNEGMLKWNHGEVFNFLRSEAVVQLMGCKKKNS 323
Db 828 MNYETMGRLRYRYRQGIILAKVDGRLVYHF 858
Oy 324 MTYEKLSPAMRYRYKREILERVDRRLVYKF 354

RESULT 7
ENTRY G02318 #type complete
TITLE Ets transcription factor - human
ORGANISM #formal_name Homo sapiens #common_name man
DATE 21-Dec-1996 #sequence_revision 06-Jun-1997 #text_change 17-Jul-1998

```

[illegible]

